

SM 282 E 12/02

PSN _____ BORNUM B-1
DIVISION Syracuse
COUNTY Oneida
PIN S53076
ROUTE Thruway Mainline
MILEPOST 257.09
PROJECT D214887_Assignment 3



NEW YORK STATE THRUWAY AUTHORITY
NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE FH-B
LINE I-90
STA _____
OFFSET ft
SURF. ELEV. ft
DEPTH TO WATER _____

COORDINATES (Lat) 43.110699°N (Long) 75.665109°W
DATE START 4/29/2024 DATE FINISH 4/29/2024

AUGER 4 1/4" I.D. HOLLOW STEM FLIGHT AUGER WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
SAMPLER O. D. 2 in I. D. in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)					MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24				
			6	12	18	18	24				
	0.0	AUGER									(SM) (FILL) Silty SAND with Gravel, trace clay loose, light brown D - NPL
		SS1	3	5	5			13%	12		
		SS2	5	3	6	7			9		- frequent cobbles from 2 feet -
	5.0	SS3	5	4	4	3			1		-
		SS4	2	2	3	4			12		(SC-SM) (FILL) Silty, Clayey SAND with Gravel loose to compact, reddish-purple, damp, calcareous M - LPL
		SS5	3	4	7	5			19		-
	10.0	SS6	3	5	6	8		15%	16		-
		SS7	8	9	11	11			12		- Increased gravel content from 12 feet -
	15.0	SS8	8	4	4	11			7		-
		SS9	7	9	4	3			15		-
		SS10	4	4	5	6			12		- wet at bottom of spoon at 18 feet -
	20.0	SS11	3	8	8	12			16		-
		SS12	9	9	14	12			5		(SC-SM) (FILL) Silty, Clayey SAND with Gravel well compact, red, wet W - LPL
	25.0	SS13	7	8	7	11			0		-
		SS14	5	4	13	17			17		-
		SS15	7	13	14	9			16		(SM) Silty, f. SAND medium dense to dense, little clay, very fine, dark grayish-brown, wet W - NPL
	30.0	SS16	4	10	10	14			19		-
		SS17	7	12	16	20			24		(CL-ML) Clayey SILT very stiff, dark brownish-gray, cemented, cohesive W - PL
	35.0	SH18							24		-

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DRILL RIG OPERATOR Marc Cheney
SOIL & ROCK DESCRIPTION Alsény Diop, P.E.
INSPECTOR Alsény Diop, P.E.
BIN _____
STRUCTURE NAME MP 257.09

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DEPTH TO WATER _____

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AUGER 4 1/4" I.D. HOLLOW STEM FLIGHT AUGER WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
SAMPLER O. D. 2 in I. D. in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)				MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18				
			6	12	18	24				
	35.0	SS19	6	13	25	18		21		-
		AUGER								(SM) Silty, f. SAND dense to very dense, dark grayish-brown, wet W - NPL
	40.0	SS20	17	26	28	44		24		-
		AUGER								
	45.0	SS21	17	28	32	47		15		-
		AUGER								(CL-ML) Clayey SILT hard, trace sand, dark grayish-brown, wet, cohesive W - LPL
	50.0	SS22	12	20	24	31		24		-
		AUGER								
	55.0	SS23	9	10	13	18		19		(SM) Silty f. SAND extremely dense, dark brown, wet W - NPL
		SS24	19	33	43	63		24		-

BOTTOM OF HOLE AT 59.00 ft

DATE	TIME	DEPTH (ft.)			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
29-Apr-24	00:00	59.00	0.00	35.30	0.00	No

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DRILL RIG OPERATOR Marc Cheney
SOIL & ROCK DESCRIPTION Alseny Diop, P.E.
INSPECTOR Alseny Diop, P.E.
BIN _____
STRUCTURE NAME MP 257.09

CONTRACT D214887 CONTRACTOR NSD Specialized Drilling SHEET 2 OF 2 HOLE FH-B

TWY-CAN SUBSURF EXPLORATION THRUWAY.GPJ TWYSE1TMPL_ V05.GDT 10/18/24

SM 282 E 12/02

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NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE FH-B
LINE I-90
STA _____
OFFSET ft
SURF. ELEV. ft
DEPTH TO WATER _____

COORDINATES (Lat) 43.110146°N (Long) 75.664549°W
DATE START 4/30/2024 DATE FINISH 5/2/2024

AUGER 4 1/4" I.D. HOLLOW STEM FLIGHT AUGER WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
SAMPLER O. D. 2 in I. D. in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)					MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24				
			6	12	18	18	24				
	0.0	AUGER									<u>Approximately 4 inches of ASPHALT over 8 inches of Portland Cement CONCRETE over 24 inches of Crusher Run GRAVEL</u>
		SS1	16	17	17	13		11%	7		
		SS2	6	3	4	7					<u>(FILL) Silty, Clayey SAND with Gravel</u> D - LPL loose, reddish purple, damp, calcareous D -
	5.0	SS3	4	4	5	10			10		
		SS4	2	4	2	4			12		
		SS5	6	3	3	3			8		
		SS6	9	11	7	10		10%	17		
		SS7	5	6	6	9			12		
	15.0	SS8	11	12	12	10			8		
		SS9	8	11	11	13			14		
		SS10	10	8	18	13			12		
	20.0	SS11	8	13	10	8			12		
		SS12	7	10	13	10			16		
		SS13	7	7	8	4			14		
		SS14	3	4	9	11		18%	15		
		SS15	7	14	15	18			13.5		<u>(CL-ML) Clayey SILT with Sand, trace gravel</u> - very stiff to hard, grayish-brown, wet, cohesive W - LPL
	30.0	SS16	9	13	14	22			19		
		SS17	6	13	17	19			20		
	35.0										

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SOIL & ROCK DESCRIPTION Alseny Diop, P.E.
INSPECTOR Alseny Diop, P.E.
BIN _____
STRUCTURE NAME MP 257.09

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CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
SAMPLER O. D. 2 in I. D. in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)					MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24				
			6	12	18	24					
	35.0	SS18	9	22	24	27			16		- grades to hard, wet with sand layers from 35 feet <u>(CL-ML) Clayey SILT with Sand, trace gravel</u> (continued) - W - LPL
		SS19	9	15	22	33			24		
	40.0	SS20	7	14	22	29			22		-
		SS21	8	11	14	20			17		-
		SS22	9	19	27	31			24		-
	45.0	SH23							8		-
		SS24	12	21	16	20			24		-
		AUGER	13	15	24	29			5		- traces rounded gravel at 48 feet -
	50.0										
		SS26	10	13	21	24			16.5		-
	55.0										
		SS27	22	15	17	22			17		-
	60.0										
		SS28	9	11	15	16			24		- trace fine gravel at 64 feet -
	65.0										
		SS29	7	11	13	16			24		-
	70.0										

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CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
SAMPLER O. D. 2 in I. D. in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)					MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24				
	70.0	AUGER									(CL-ML) Clayey SILT with Sand, trace gravel (continued) W - LPL
		SS30	9	11	14	14			6		-
	75.0	AUGER									(CL-ML) Clayey SILT stiff, brown, wet, cohesive W - LPL
		SS31	5	6	6	9		25%	24		-
	80.0	AUGER									(GM) (TILL) as Silty GRAVEL with Sand and Decomposed Shale Rock Cobbles dense, scratchy while drilling D - NPL
		SS32	29	19	25	32			9		-
	85.0	AUGER									

BOTTOM OF HOLE AT 88.00 ft

DATE	TIME	DEPTH (ft.)			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
30-Apr-24	00:00	88.00	0.00	35.00	0.00	No

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SM 282 E 12/02

PSN _____ BORNUM B-3
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NEW YORK STATE THRUWAY AUTHORITY
NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE FH-B
LINE I-90
STA _____
OFFSET ft
SURF. ELEV.
DEPTH TO WATER _____

COORDINATES (Lat) 43.110376°N (Long) 75.665000°W
DATE START 4/1/2024 DATE FINISH 4/2/2024

AUGER 4 1/4" I.D. HOLLOW STEM FLIGHT AUGER WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
SAMPLER O. D. 2 in I. D. in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)					MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24				
			6	12	18	24					
	0.0	SS1	4	5	7	9			6		<u>CRUSHED STONE</u> -
		SS2	6	9	4	3			10		<u>(SC-SM) Silty, Clayey SAND with Gravel</u> - medium dense, light brown, wet W - LPL
	5.0	SS3	3	1	2	1		16%	12		- grades to loose to very loose, very wet, redox from 4 feet, - possibility for seasonal high groundwater levels
		SS4	3	2	2	4			13		-
		SS5	4	7	6	10		30%	17		-
	10.0	SS6	11	11	17	22			16		<u>(CL) Lean CLAY</u> W - PL stiff to very stiff, brown
		SS7	7	11	17	24			16		-
	15.0	SS8	17	21	26	24			19		<u>(ML) Sandy SILT and Silty SAND, interlayering</u> M - NPL dense to very dense, trace clay, dark brown, moist, non-plastic
		SS9	16	23	25	30			20		-
	20.0	SS10	10	10	16	21			14		<u>(CL) Lean CLAY</u> - very stiff to hard, trace sand, dark brown, very moist, plastic M - PL
		SS11	7	15	15	20			21		-
		SS12	12	22	22	31			17		<u>(ML) Sandy SILT</u> M - NPL very dense, trace clay, dark brown, very moist, non-plastic
	25.0	SS13	17	29	29	34			17		-
		SS14	18	21	25	30			16		-
	30.0	SS15	17	19	21	23		20%	19		-
		SS16	11	14	18	28			21		-
		SS17	8	12	19	24			24		-
	35.0	SS18	11	26				20%	24		-

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HOLE FH-B
LINE I-90
STA _____
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DEPTH TO WATER _____

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CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
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CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)				MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18				
	35.0									
		SS19	15		29	38		16		(CL-ML) Clayey SILT W - LPL hard, trace sand, dark brown, cohesive -
				26	33	39				
		SS20	14	21	28			18		-
	40.0									
		AUGER								
		SS21	13	16	21			24		-
	45.0									
		AUGER								
		SS22	14	16	18			24		-
	50.0									
		AUGER								
		SS23	17	17	37			22		-
	55.0									(GM) (TILL) Silty GRAVEL with Sand D - NPL very dense, reddish-brown, non-plastic, damp
		AUGER								
		SS24	38	42	31			14		-grades to extremely dense with frequent cobbles from 57.5 feet -
	60.0									
		AUGER								

AUGER

BOTTOM OF HOLE AT 60.00 ft

DATE	TIME	DEPTH (ft.)			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
01-Apr-24	00:00	60.00	0.00	7.00	0.00	No

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CONTRACT D214887 CONTRACTOR NSD Specialized Drilling

SHEET 2 OF 2 HOLE FH-B

TWY-CAN SUBSURF EXPLORATION THRUWAY.GPJ TWYSE1TMPL_V05.GDT 10/18/24